

AMENDMENTS TO THE CLAIMS

1. (Original) A phosphor,
wherein a first phosphor having a chemical formula of $\text{Sr}_{4-x}\text{Mg}_y\text{Ba}_z\text{Si}_2\text{O}_8:\text{Eu}_x^{2+}$ ($0 < x < 1$, $0 \leq y \leq 1$, $0 \leq z \leq 1$) and a second phosphor having a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}_x^{2+}$ ($0 < x \leq 1$) are used with mixed in a fixed ratio.
2. (Original) The phosphor of claim 1, wherein the first phosphor is excited by light having a main peak in a range of 400 to 480nm and has a light emitting main peak in a range of 500 to 600nm.
3. (Original) The phosphor of claim 1, wherein the second phosphor is excited by light having a main peak in a range of 400 to 480nm and has a light emitting main peak in a range of 550 to 600nm.
4. (Original) The phosphor of claim 1, wherein a ratio of the first phosphor and the second phosphor is in a range of 9.9 : 0.1 to 5.0 : 5.0.
5. (Original) The phosphor of claim 1, wherein an average size of a particle of the first phosphor and the second phosphor is $20\mu\text{m}$ or less.
6. (Original) The phosphor of claim 1, wherein an average size of a particle of the first phosphor and the second phosphor is in a range of 5 to $15\mu\text{m}$.
7. (Original) The phosphor of claim 1, wherein excitation light of the phosphor has a main peak in in a range of 400 to 480nm.
8. (Original) The phosphor of claim 1, wherein light exciting the phosphor and light excited by the phosphor are composed and emit white light.

9. (Original) A light emitting device comprising:
a light source;
a substrate supporting the light source;
a light transmitting member provided in at least one part around the light source; and
a phosphor which is mixed in the light transmitting member and in which a first phosphor having a chemical formula of $\text{Sr}_{4-x}\text{Mg}_y\text{Ba}_z\text{Si}_2\text{O}_8:\text{Eu}_x^{2+}$ ($0 < x < 1, 0 \leq y \leq 1, 0 \leq z \leq 1$) and a second phosphor having a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}_x^{2+}$ ($0 < x \leq 1$) are mixed in a fixed ratio.

10. (Original) The light emitting device of claim 9, wherein when the light emitting device is used in a top view type, a ratio of the first phosphor and the second phosphor is in a range of 9.7 : 0.3 to 8.5 : 1.5.

11. (Original) The light emitting device of claim 10, wherein a content of the phosphor to the light transmitting member is in a range of 10 to 30 wt%.

12. (Original) The light emitting device of claim 9, wherein when the light emitting device is used in a side view type, a ratio of the first phosphor and the second phosphor is in a range of 9.5 : 0.5 to 8.0 : 2.0.

13. (Original) The light emitting device of claim 12, wherein a content of the phosphor to the light transmitting member is in a range of 5 to 20wt%.

14. (Original) The light emitting device of claim 9, wherein when the light emitting device is used in white backlight, a mixed ratio of the first phosphor and the second phosphor is in a range of 9.7 : 0.3 to 8.5 : 1.5.

15. (Original) The light emitting device of claim 14, wherein a content of the phosphor to the light transmitting member is in a range of 20 to 50 wt%.

16. (Original) The light emitting device of claim 9, wherein when the light emitting device is used in bluish white color backlight, the first phosphor and the second phosphor are mixed in a ratio of 9.7 : 0.3 to 8.5 : 1.5.

17. (Original) The light emitting device of claim 16, wherein a content of the phosphor to the light transmitting member is in a range of 10 to 40 wt%.

18. (Original) The light emitting device of claim 9, wherein the light transmitting member is molded as a light transmitting resin material.

19. (Original) The light emitting device of claim 18, wherein the light transmitting resin member is a silicone resin or an epoxy resin.

20. (Original) The light emitting device of claim 9, wherein white color light is emitted after passing through the phosphor layer.

21. (Original) The light emitting device of claim 9, wherein the light transmitting member is entirely provided at the outside of the light source.

22. (Original) The light emitting device of claim 9, wherein the light transmitting member is partially provided at the outside of the light source.

23. (Cancelled)

24. (Cancelled)

25. (Original) A surface mounting-type light emitting device comprising:
a light source;
a support supporting the light source;
a light transmitting member provided in at least one part around the light source; and
a phosphor which is mixed in the light transmitting member and in which a first phosphor having a chemical formula of $\text{Sr}_{4-x}\text{Mg}_y\text{Ba}_z\text{Si}_2\text{O}_8:\text{Eu}_x^{2+}$ ($0 < x < 1, 0 \leq y \leq 1, 0 \leq z \leq 1$) and a second phosphor having a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}_x^{2+}$ ($0 < x \leq 1$) are mixed in a fixed ratio.

26. (Original) A lamp-type light emitting device comprising:
a light source;
a support supporting the light source;
a light transmitting member provided in at least one part around the light source; and
a phosphor which is mixed in the light transmitting member and in which a first phosphor having a chemical formula of $\text{Sr}_{4-x}\text{Mg}_y\text{Ba}_z\text{Si}_2\text{O}_8:\text{Eu}_x^{2+}$ ($0 < x < 1, 0 \leq y \leq 1, 0 \leq z \leq 1$) and a second phosphor having a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}_x^{2+}$ ($0 < x \leq 1$) are mixed in a fixed ratio.